



Assessing the sustainability of improved vegetable varieties in southern Mali: A gender perspective

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Introduction

- The development and dissemination of improved vegetable varieties in southern Mali can contribute towards higher yields and income and decrease malnutrition.
- In southern Mali women are often targeted for vegetable farming interventions as this is considered a woman's field of activity.

However ...

- The documentation of gender-disaggregated trait preferences of improved vegetable varieties is scant.
- An in-depth assessment of local farming practices and of the market integration of women and men vegetable producers has not yet been conducted in the field of vegetable breeding in Mali.

Are benefits introduced by genetic innovation interventions sustainable for women and men vegetable producers in southern Mali?

Methodology

- Study sites: 9 communities in the districts of Koutiala and Bougouni (Sikasso region)
- Sample: 75 vegetable producers (56 women, 19 men)
- Intervention design (2 phases):
 - 1. Innovation bundles comprising improved seeds of tomato (Solanum lycopersicum L.) and African eggplant (Solanum aethiopicum [L.]), biopesticides, mineral fertilizer, and training on good farming practices provided to farmers for on-farm experimentation.
 - Participatory assessment of farmers' experimentations through research tools designed as per the Sustainable Intensification Assessment Framework (SIAF) [Figure 1]:
 - Survey questionnaire
 - Gender-separate focus group discussions
 - Matrix scoring exercise (a tool for participatory varietal evaluation) [Photo 1]



Photo 1: Participatory evaluation of experimented African eggplant varieties. Evaluation criteria were developed according to SIAF indicators [Photo credit: Africa RISING/West Africa project]

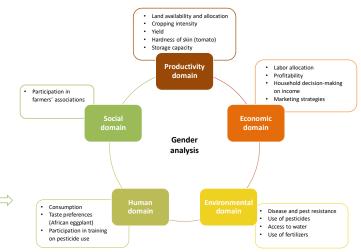
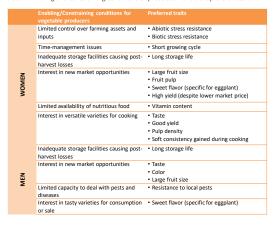


Figure 1: Domains and indicators for the assessment of genetic intensification interventions as per the Sustainable Intensification Assessment Framework (SIAF)

Results

Women's and men's strategies to cope with constraints in vegetable production highlight strong gender inequalities in vegetable farming. Access to resources and finance, time management, and mobility influence farmers' trait preferences for tomato and African eggplant varieties [Table 1].

Table 1: Enabling and constraining conditions of production and trait preferences for women and men farmers



The persistence of gender inequalities in the field of vegetable farming prevents women benefitting from the introduction of improved varieties and undermines the long-term sustainability of breeding interventions.

Recommendation

The introduction of improved varieties should be conducted along with activities that tackle gender constraints in the context of intervention.

















